

## Hooper Bay Subsistence Salmon Monitoring Project, 2000



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## TABLE OF CONTENTS

LIST OF TABLES .....	iv
LIST OF FIGURES .....	v
LIST OF APPENDICES.....	vi
ABSTRACT.....	vii
INTRODUCTION .....	1
Community of Hooper Bay .....	1
Alaska Department of Fish and Game Projects.....	2
Project Design.....	2
METHODS .....	2
RESULTS .....	3
DISCUSSION.....	3
LITERATURE CITED .....	5
TABLES .....	6
FIGURES.....	8
APPENDICES .....	11

## LIST OF TABLES

<u>Table</u>		<u>Page</u>
1. Hooper Bay subsistence and Big Eddy test fishing chinook salmon catch, and daily and cumulative CPUE, 2000.....		6
2. Hooper Bay subsistence and Big Eddy test fishing summer chum salmon catch, and daily and cumulative CPUE, 2000.....		7

## LIST OF FIGURES

<u>Figures</u>	<u>Page</u>
1. Alaska portion of the Yukon River drainage .....	8
2. Hooper Bay subsistence and Big Eddy test fishing chinook salmon daily and cumulative CPUE, 2000 .....	9
3. Hooper Bay subsistence and Big Eddy test fishing summer chum salmon daily and cumulative CPUE, 2000.....	10

**APPENDIX TABLE A**

	<u>Page</u>
A.1. Hooper Bay chinook and summer chum salmon subsistence harvest by entry number, date, time fished, net length, mesh size, catch and CPUE, 2000.....	11
A.2. Hooper Bay summer chum salmon (mesh size smaller than 6.5") subsistence harvest by entry number, time fished, net length, mesh size and CPUE, 2000.....	21
A.3. Hooper Bay chinook salmon (mesh size 6.5" or greater) subsistence harvest by entry number, time fished, net length, mesh size and CPUE, 2000.....	28

**APPENDIX TABLE B**

	<u>Page</u>
B.1. Hooper Bay subsistence catch survey form.....	33

## ABSTRACT

The Yukon River Area includes all waters of Alaska within the Yukon River drainage and all coastal waters of Alaska from Point Romanof southward to the Naskonat Peninsula. Because of its location south of the Yukon River, subsistence harvest information from Hooper Bay could be a potential indicator of run strength and timing before chinook and summer chum salmon enter the Yukon River.

During the 2000 monitoring season, 455 interviews were conducted between June 8 and July 2. Catch, time fished, gill net length and mesh size information was collected during these interviews. A total of 41 chinook and 4,482 summer chum salmon were harvested during the monitoring period. The average chinook salmon catch per day was 1.86 salmon and the average chum salmon catch was 179.28 fish per day.

There were 11 days between the mid-point of the Hooper Bay chinook salmon subsistence fishery and the ADF&G Big Eddy test fishing mid-point. The chinook salmon cumulative CPUE for Hooper Bay was 0.79 compared to 16.38 for the Big Eddy test fishing project. The low harvest did not correlate with chinook salmon catches at the Big Eddy test fishing project on the Yukon River; therefore the data may not serve as a good indicator of chinook run timing, strength, or abundance. For summer chum salmon, the Hooper Bay cumulative CPUE was 50.10 compared to 19.10 for the Big Eddy test fishing project. There were 4 days between the mid-point of the Hooper Bay subsistence fishery and the Big Eddy test fishing nets. Because of the larger harvest of summer chum salmon in the Hooper Bay subsistence fishery, there may be a measurable correlation between Hooper Bay and Big Eddy test fishing project for summer chum salmon. It should be noted that the 2000 salmon runs were very poor and this likely affected the subsistence harvest and run timing relationship between Hooper Bay and the Yukon River. Continued inseason data collection may eventually lead to formal run timing and run strength estimation for the Yukon River chinook and summer chum salmon.

## INTRODUCTION

From its headwaters in Marsh Lake, British Columbia (Thorsteinson et al. 1989), the Yukon River flows approximately 2,300 miles to the Bering Sea coast in western Alaska. The Yukon River Area includes all waters of Alaska within the Yukon River drainage and coastal waters from Point Ramanof, located northeast of Kotlik, and south to the Naskonat Peninsula (Borba and Hamner 1999 and ADFG 1999). Five species of Pacific salmon are found in the Yukon River drainage, which include chinook (*Oncorhynchus tshawytscha*), chum (*O. keta*), coho (*O. kitsutch*), pink (*O. gorbuscha*), and sockeye (*O. nerka*). Chinook and chum salmon are the primary species and provide majority of the subsistence, personal use, commercial and sport fish harvests for Yukon Area communities.

For management purposes, the Yukon Area is divided into seven districts (Figure 1). The three management areas defining the Lower Yukon Area are Districts 1, 2, and 3. The Upper Yukon Area includes Districts 4, 5 and 6. The Alaskan portion of the Yukon River drainage and the boundary of the management area terminate at the Canadian border.

The Coastal District includes the coastal marine waters within the Yukon Area and is open only to subsistence fishing. Several rural communities are located within the Coastal Management Area and within the lower portions of the Yukon River drainage. Residents of these communities are primarily of Yup'ik Eskimo ancestry who have historically fished for salmon in nearshore marine waters.

### Community of Hooper Bay

Hooper Bay is a large community situated on the northwest shore of Hooper Bay and is located approximately 150 miles northwest of Bethel and 90 miles south of the southern most mouth of the Yukon River (Figure 1). The prominent geographical features in the area include Hooper Bay in which the community is located, and the isolated coastal Askinuk Mountains located 15 miles north of the village. The land surface elevation ranges from low-lying marshes bordering Hooper Bay to an abrupt rise of 2,000 feet in height at the Askinuk Mountains. The area around Hooper Bay is well drained by several rivers systems including the Kokechik, Kashunuk, Keolivik, Aphrewn, and Manokinak rivers (Stickney 1984).

Hooper Bay, with a population of approximately 1,200 residents, is the largest community in the Yukon-Kuskokwim Delta after Bethel. Hooper Bay has a subsistence-based economy and functions as the hub for nearby smaller satellite villages. Residents harvest salmon for subsistence purposes as the fish migrate north to the Yukon River. Subsistence salmon fishing activities in the bay occur from late May through mid-July. Historically, residents harvest salmon stocks annually that originate from the Yukon River system and from other areas. A Bering Sea Fishermen's Association tagging and recapture study conducted in 1986 identified that the residents of Hooper Bay primarily harvest Yukon Area chum and pink salmon stocks, (Borba and Hamner 1999), but also harvest Kotzebue and Norton Sound chum salmon stocks (Kerkvliet 1986).

## **Alaska Department of Fish and Game Projects**

Since 1992, the Alaska Department of Fish and Game (ADF&G) has conducted annual subsistence surveys in the Hooper Bay area (Borba and Hamner 1999). Fishery managers have periodically collected inseason catch reports from Hooper Bay residents. Although helpful, inseason data from Hooper Bay has not been collected on a consistent basis, but only when time was available.

Currently, ADF&G employs a variety of methods to determine returning salmon run strength and timing in the Yukon River. These methods include drift and set net test fishing projects, sonar assessment projects, tower and weir counting projects, and commercial and subsistence fishery catch rate information. However, these projects only provide information on salmon passage after they have entered the mouth of the Yukon River. Because of recent declines in Yukon River chinook and summer chum salmon returns, ADF&G is very interested in collecting salmon run strength and run timing information before the salmon enter the mouth of the Yukon River.

### **Project Design**

This project was designed to compliment and aid the existing data collection methodologies that are currently in place to determine run timing and strength prior to salmon entering the mouth of the Yukon River. Chinook and summer chum salmon are harvested in coastal Yukon area communities annually, but these catches are not formally monitored inseason. Subsistence fishers from Hooper Bay catch salmon before they enter the Yukon River. This ongoing traditional fishing effort may be used to provide catch data with the potential to generate an early assessment of the run strength of returning chinook and summer chum salmon runs. This information may help fishery managers better assess salmon runs early in the migration.

### **METHODS**

During the 2000 summer season, two Hooper Bay Traditional Council technicians collected daily salmon catch and effort data from subsistence salmon fishers in the Hooper Bay area. Data was collected between June 8 through July 2 during the chinook and summer chum salmon migration. Data collection ended on the July 2 when fish were no longer available and fishermen stopped fishing. Technicians conducted subsistence fisher interviews and gathered information on daily catch by species, net length, mesh size, and time fished. Each technician contacted fishers at the small boat harbor and used four-wheeled ATV's or by foot to meet fishermen as they returned from fishing.

Catch per unit effort (CPUE) calculations were completed for each interview and compiled into a data base. The Hooper Bay harvest data was converted to CPUE using the same formula as the Big Eddy test fishing data. The CPUE formula is the number of fish caught divided by the number of hours fished. Therefore, the CPUE is the number of fish caught per hour fished. The CPUE from each project was then compared to each other. The chinook and summer chum salmon harvest information from Hooper Bay was separated by mesh size. Catch information from mesh sizes greater than 6.5 inches was used for chinook catch rates, while mesh sizes less

than or equal to 6.5 inches provided data on summer chum salmon harvest. Assembled data was to be reported to the ADF&G office in Emmonak on a daily basis. This collected data was then compared qualitatively with the existing lower Yukon River set gillnet test fishing daily and cumulative CPUE.

The Yukon River summer season area research and management biologists worked to ensure that the data collected from the Hooper Bay Subsistence Salmon Monitoring Project was accurate and of the same quality and standards obtained from other catch data collected in the Lower Yukon Area.

## RESULTS

During the 2000 monitoring season, a total of 455 interviews were conducted during a 25-day period (June 8 to July 2) (Appendix Table A.1.). Subsistence fishers primarily used set gillnets to harvest chinook and summer chum salmon. Fishermen used nets of varying lengths (1.4 fathoms to 100 fathoms), and assorted mesh sizes (2.5 inches to 8.5 inches). The inseason reported harvest by Hooper Bay subsistence fisherman was 41 chinook salmon and 4,482-summer chum salmon (Table 1).

Chinook salmon were harvested using nets that averaged 24.8 fathoms in length with a mean mesh size of 7.7 inch. The total time fished using chinook gear was 67,740 minutes (1,129 hours) (Appendix Table 3). The mean chinook catch per day was 1.9 salmon. The cumulative CPUE was 0.8, compared to 16.4 for the Big Eddy test fishing project (Figure 2). The average number of fishermen per day using chinook salmon gear was 8.4 with an average fishing time of 6.1 hours per fisherman. Overall, the chinook salmon harvest in Hooper Bay was low. The highest single day catch was 7 salmon on June 13. Because of the low harvest of chinook salmon, no run timing comparisons between Hooper Bay and the Big Eddy test fishing project could be made with chinook salmon (Figure 3). When comparing the quartiles between Hooper Bay and the Big Eddy test fishing project, the differences (number of days) between the quartiles were 8 days (1<sup>st</sup> quartile), 11 days (2<sup>nd</sup> quartile) and 10 days (3<sup>rd</sup> quartile) (Table 1).

On June 20, subsistence fishers harvested 818 chum salmon, the highest single day harvest during the monitoring period. The highest daily CPUE was 7.5 also occurring on June 20. The cumulative CPUE was 50.1, compared to 19.1 for the Big Eddy test fishing project (Figure 2). Summer chum salmon were harvested using nets with a mean length of 23.7 fathoms with an average mesh size of 5.1 inches. Fishermen fished for a total 107,955 minutes (1,799.3 hours) (Appendix Table 2). The mean chum salmon catch was 179.3 fish per day. The average number of fishermen using summer chum salmon gear per day was 12.3 with an average fishing time of 6.7 hours per fisherman. When comparing the quartiles between Hooper Bay and the Big Eddy test fishing project, the differences (number of days) between the quartiles were 2 days (1<sup>st</sup> quartile), 4 days (2<sup>nd</sup> quartile) and 5 days (3<sup>rd</sup> quartile) (Table 2).

## DISCUSSION

The 2000 preseason outlook was for a weak to below average chinook and summer chum salmon run in the Yukon River (ADF&G 2000). Overall, the 2000 chinook and summer chum salmon

season was far worse than anticipated. Harvests in Hooper Bay were the lowest most fishermen had seen in recent history. An additional factor affecting harvests in Hooper Bay may have been the weather conditions. Hooper Bay harvests tend to be higher when onshore winds occur. According to the fishermen, there were fewer days with onshore winds (northeast) in 2000 than normal.

Because it is a new project, the results were not utilized to provide run timing and strength information in 2000. Subsistence fishermen indicated that this year's harvest was one of the lowest in recent memory supporting information from other run assessment projects used by the department. Summer chum salmon catch rates may be a more viable tool to managers in the future concerning run strength and timing compared to chinook salmon data. The poor results for chinook salmon may be attributed to not enough chinook salmon being caught in Hooper Bay to provide an assessment of the run timing and abundance of chinook salmon. However, this was one of the poorest chinook salmon runs on record. More useful information may be obtained when the run size is larger. Additional years of data need to be collected to understand its potential contribution to the management of the Yukon River fisheries.

More comparable information between the Hooper Bay subsistence monitoring project and the Big Eddy test fishing project could provide higher quality information. One option would be to continue the project as is but only compare gillnets that are of similar mesh size. For example, instead of comparing Big Eddy 5.5 inch mesh size gill nets to Hooper Bay nets smaller than 6.5 inch, compare the Big Eddy test fishing nets to similar mesh size nets used in Hooper Bay. The other option would be to establish a test fishery using the same gear type used at the Big Eddy sight. Comparing similar or identically collected data would provide managers with higher quality of comparable run timing and run strength information. In the future, the collection of scales from chinook and summer chum salmon for aging purposes should be added to the project. This could provide local residents a better understanding of the biology of salmon harvested in Hooper Bay.

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Table 1. Hooper Bay subsistence and Big Eddy test fishing chinook salmon catch, and daily and cumulative CPUE, 2000.<sup>a</sup>

Date	Chinook Salmon					
	Hooper Bay Subsistence			Big Eddy Test Fishing Nets		
	Daily	Catch	CPUE	Cumulative	Daily	Cumulative
01-Jun						
02-Jun						
03-Jun					0.00	0.00
04-Jun					0.06	0.06
05-Jun					0.08	0.14
06-Jun				0	0.17	0.31
07-Jun <sup>b</sup>				3	0.13	0.44
08-Jun <sup>b</sup>	2	0.13	0.13	4	0.04	0.48
09-Jun <sup>b</sup>	1	0.03	0.17	8	0.10	0.58
10-Jun <sup>c</sup>	0	0.00	0.17	6	0.33	0.91
11-Jun	6	0.08	0.25	2	0.10	1.01
12-Jun	2	0.02	0.27	5	0.08	1.09
13-Jun	7	0.06	0.33	21	0.15	1.24
14-Jun	3	0.04	0.37	9	0.15	1.39
15-Jun	4	0.04	0.41	7	0.08	1.47
16-Jun	2	0.03	0.43	8	0.19	1.66
17-Jun	0	0.00	0.43	14	0.21	1.87
18-Jun	6	0.07	0.50	13	1.54	3.41
19-Jun	1	0.02	0.52	21	1.23	4.64
20-Jun	1	0.03	0.55	38	0.63	5.27
21-Jun	2	0.04	0.59	122	0.25	5.52
22-Jun	2	0.06	0.65	85	0.40	5.92
23-Jun	0	0.00	0.65	51	0.35	6.27
24-Jun			0.65	35	0.21	6.48
25-Jun			0.65	69	1.17	7.65
26-Jun	0	0.00	0.65	42	2.19	9.84
27-Jun	0	0.00	0.65	25	0.67	10.51
28-Jun	2	0.14	0.79	69	0.69	11.20
29-Jun	0	0.00	0.79	132	0.56	11.76
30-Jun	0	0.00	0.79	57	0.23	11.99
01-Jul			0.79	68	0.33	12.32
02-Jul	0	0.00	0.79	58	0.33	12.65
03-Jul				21	0.35	13.00
04-Jul				24	0.83	13.83
05-Jul				21	0.27	14.10
06-Jul				23	0.19	14.29
07-Jul				50	0.10	14.39
08-Jul				27	0.23	14.62
09-Jul				19	0.44	15.06
10-Jul				5	0.38	15.44
11-Jul				17	0.19	15.63
12-Jul				30	0.08	15.71
13-Jul				22	0.02	15.73
14-Jul				14	0.02	15.75
15-Jul				6	0.63	16.38
Total	41	0.79		1,251	16.38	

<sup>a</sup> Area highlighted by the fine line represents the 25% to 75% quartiles. The bold outline represents the 50 percentile.

<sup>b</sup> Site 1 chinook net pulled at Big Eddy due to heavy debris.

<sup>c</sup> Site 1 chinook net reset, fished 12 hours for day.

Table 2. Hooper Bay subsistence and Big Eddy test fishing summer chum salmon catch, and daily and cumulative CPUE, 2000.

Summer Chum Salmon						
	Hooper Bay Subsistence		Big Eddy Test Fishing Nets			
Date	Daily	Cumulative	Daily	Cumulative	Catch	CPUE
1-Jun						
2-Jun						
3-Jun						
4-Jun			0	0.00	0.00	
5-Jun			1	0.04	0.04	
6-Jun			2	0.08	0.12	
7-Jun			1	0.04	0.16	
8-Jun	6	0.18	0.18	2	0.08	0.24
9-Jun	19	0.28	0.46	20	0.83	1.07
10-Jun	56	1.87	2.33	50	2.08	3.15
11-Jun	58	0.82	3.14	13	0.54	3.69
12-Jun	137	1.47	4.62	9	0.38	4.07
13-Jun	102	1.16	5.78	4	0.17	4.24
14-Jun	135	1.65	7.42	4	0.17	4.41
15-Jun	139	1.22	8.64	3	0.13	4.54
16-Jun	308	3.23	11.87	5	0.21	4.75
17-Jun	457	2.89	14.76	3	0.13	4.88
18-Jun	500	6.41	21.17	36	1.50	6.38
19-Jun	513	5.22	26.39	39	1.63	8.01
20-Jun	818	7.50	33.90	22	0.92	8.93
21-Jun	322	5.37	39.26	6	0.25	9.18
22-Jun	392	2.28	41.54	5	0.21	9.39
23-Jun	34	0.75	42.29	7	0.29	9.68
24-Jun	32	1.00	43.29	5	0.21	9.89
25-Jun	8	0.67	43.96	26	1.08	10.97
26-Jun	100	1.09	45.04	41	1.71	12.68
27-Jun	0	0.00	45.04	17	0.71	13.39
28-Jun	238	2.66	47.70	13	0.54	13.93
29-Jun	53	1.04	48.74	18	0.75	14.68
30-Jun	28	0.44	49.19	7	0.29	14.97
1-Jul	10	0.44	49.63	2	0.08	15.05
2-Jul	17	0.47	50.10	12	0.50	15.55
3-Jul				6	0.25	15.80
4-Jul				28	1.17	16.97
5-Jul				9	0.38	17.35
6-Jul				0	0.00	17.35
7-Jul				6	0.25	17.60
8-Jul				13	0.54	18.14
9-Jul				11	0.46	18.60
10-Jul				4	0.17	18.77
11-Jul				2	0.08	18.85
12-Jul				2	0.08	18.93
13-Jul				1	0.04	18.97
14-Jul				0	0.00	18.97
15-Jul				3	0.13	19.10
	4,482	50.10		458	19.10	

\* Area highlighted by the fine line represents the 25% to 75% quartiles. The bold outline represents the 50 percentile.

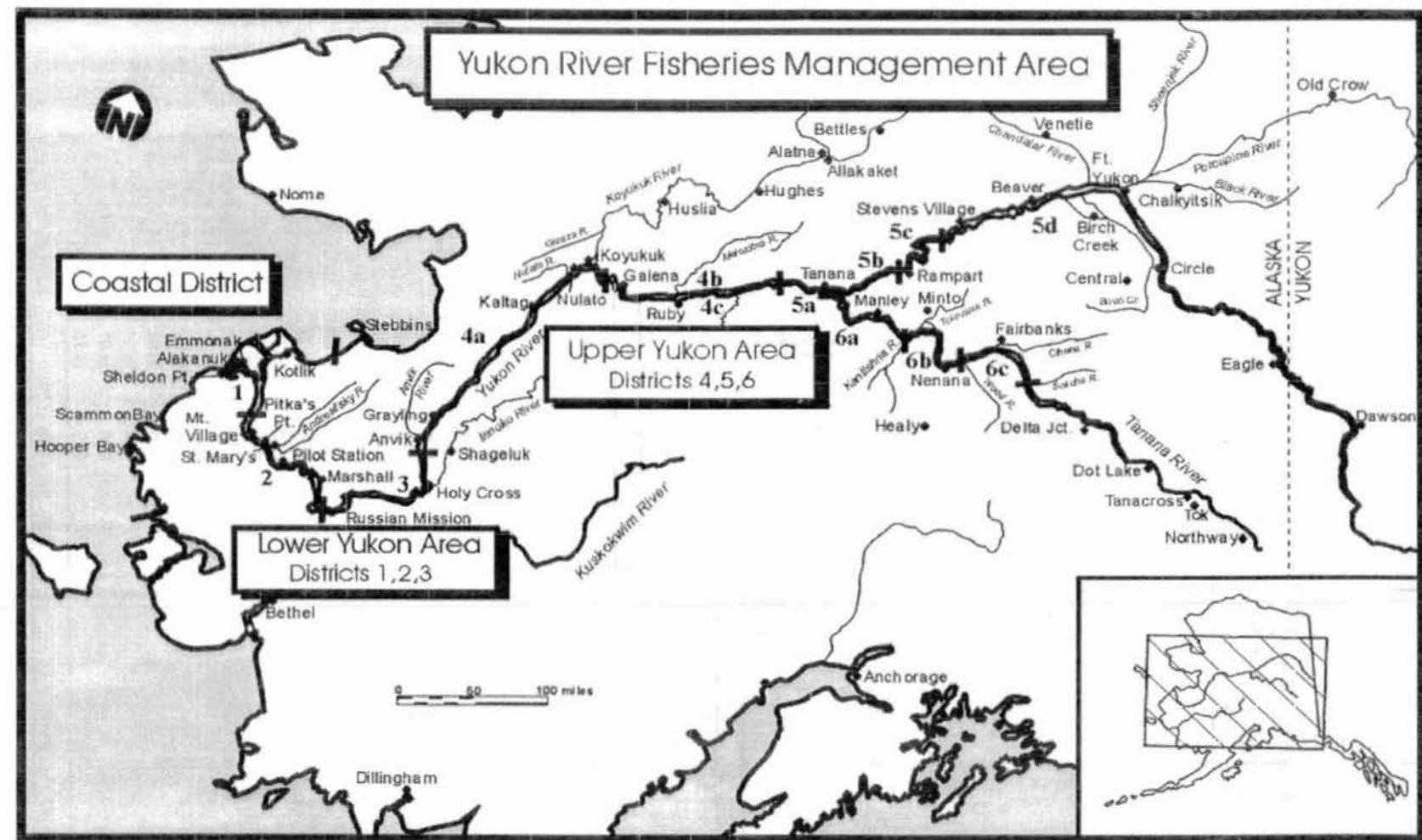


Figure 1. Alaska portion of the Yukon River drainage.

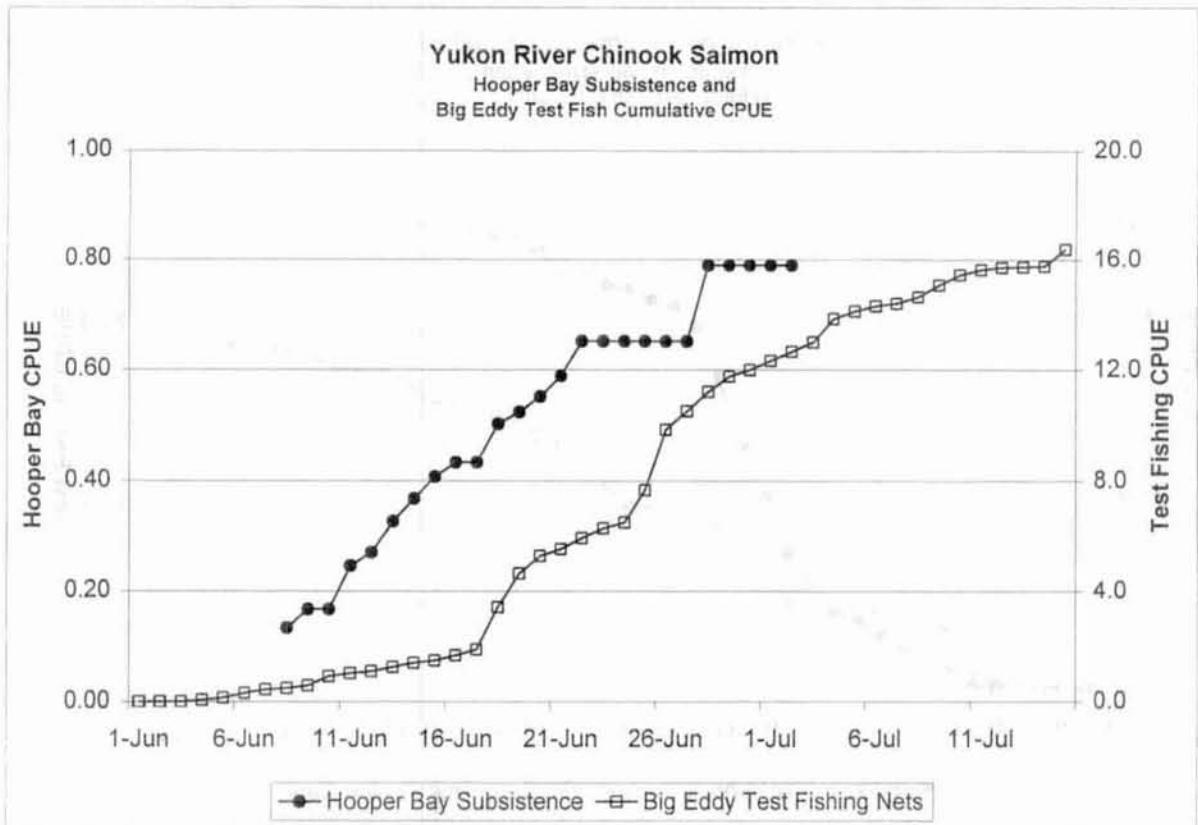
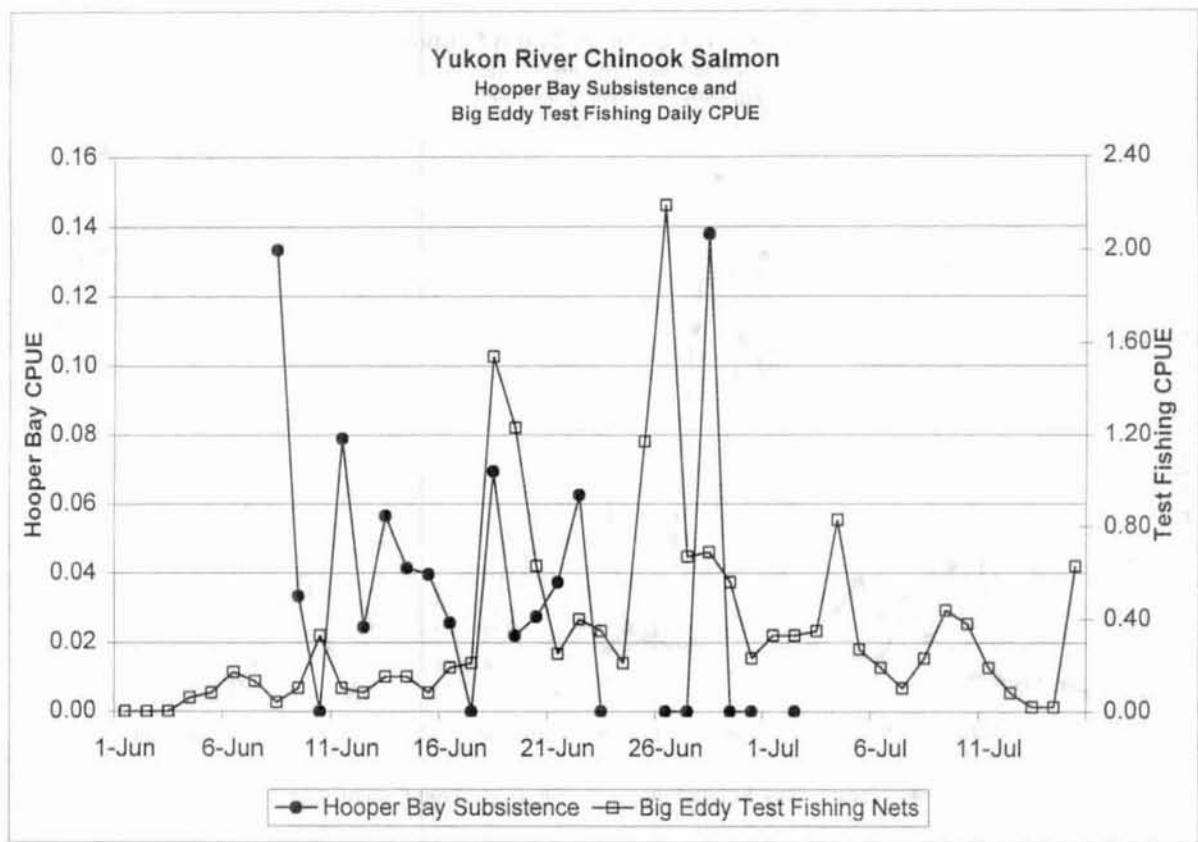


Figure 2. Hooper Bay subsistence and Big Eddy test fishing chinook salmon daily and cumulative CPUE, 2000.

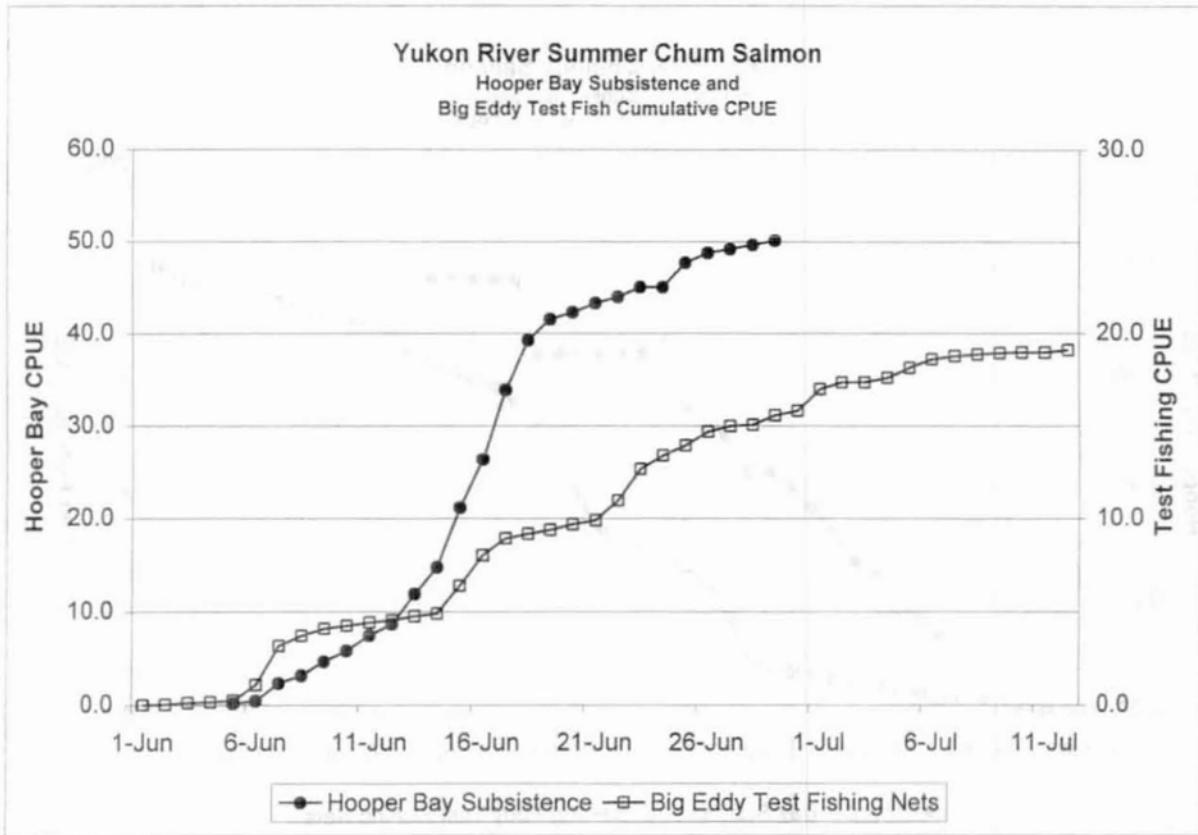
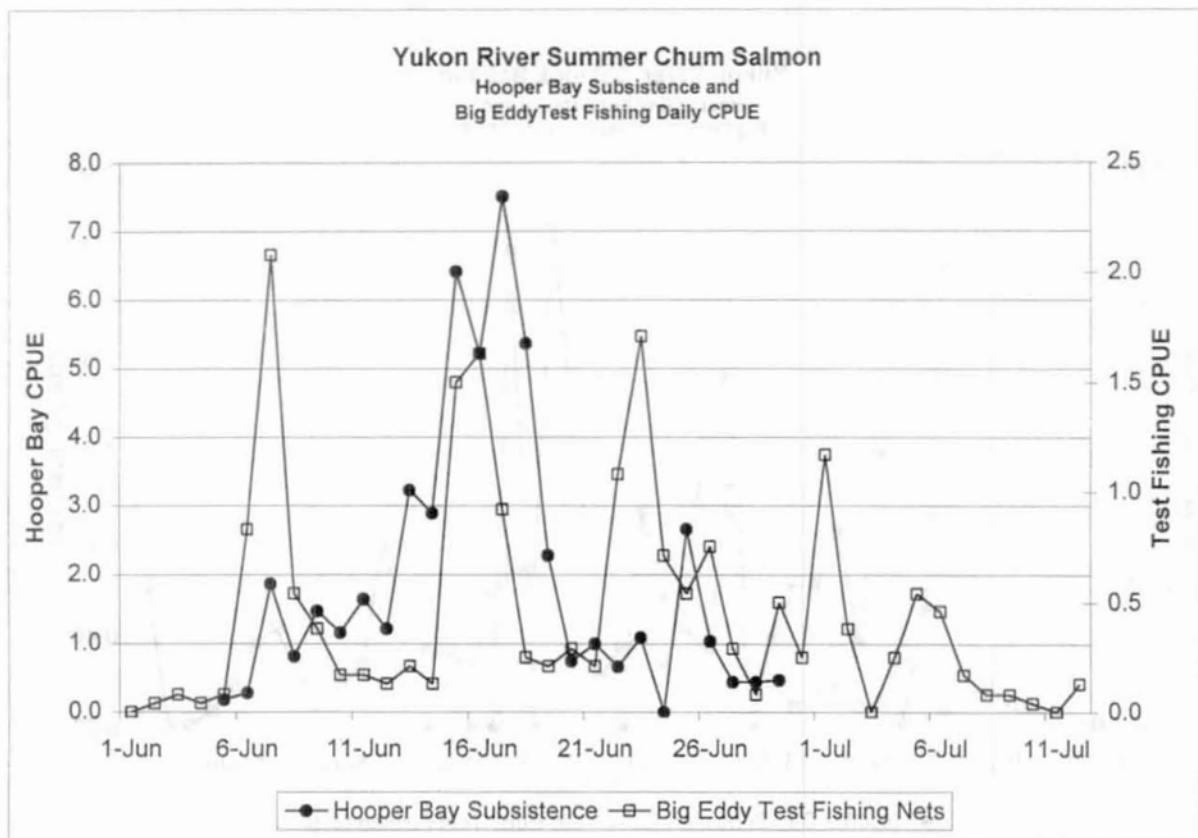


Figure 3. Hooper Bay subsistence and Big Eddy test fishing summer chum salmon daily and cumulative CPUE, 2000.

## APPENDIX TABLES

Appendix Table A1. Hooper Bay chinook and summer chum salmon subsistence harvest by entry number, date, time fished, net length, mesh size, catch and CPUE, 2000.

Entry	Date	Time Fished		Net Length (fathoms)	Mesh Size	Number Chinook	Number Chum	CPUE Chinook	CPUE Chum
		Minutes	Hours						
1	8-Jun	360	6	16.0	6.5	0	3	0.00	0.50
2	8-Jun	360	6	10.0	6.5	1	0	0.17	0.00
3	8-Jun	180	3	10.0	3.5	0	2	0.00	0.67
4	8-Jun	720	12	50.0	7.8	1	0	0.08	0.00
5	8-Jun	1,080	18	50.0	5.0	0	1	0.00	0.06
6	8-Jun	180	3	25.0	7.0	1	3	0.33	1.00
7	9-Jun	360	6	16.7	7.8	0	0	0.00	0.00
8	9-Jun	1,080	18	50.0	5.0	1	11	0.06	0.61
9	9-Jun	1,440	24	3.3	6.0	0	2	0.00	0.08
10	9-Jun	720	12	25.0	7.0	0	1	0.00	0.08
11	9-Jun	720	12	4.1	5.0	0	2	0.00	0.17
12	9-Jun	120	2	10.0	2.5	0	1	0.00	0.50
13	9-Jun	720	12	16.0	6.5	0	3	0.00	0.25
14	9-Jun	720	12	50.0	7.0	1	0	0.08	0.00
15	10-Jun	360	6	100.0	8.0	0	0	0.00	0.00
16	10-Jun	240	4	100.0	8.0	0	0	0.00	0.00
17	10-Jun	720	12	100.0	7.0	0	0	0.00	0.00
18	10-Jun	120	2	50.0	8.0	0	3	0.00	1.50
19	10-Jun	720	12	60.0	5.0	0	18	0.00	1.50
20	10-Jun	360	6	8.3	7.0	0	0	0.00	0.00
21	10-Jun	720	12	25.0	7.8	0	1	0.00	0.08
22	10-Jun	1,080	18	50.0	5.0	0	38	0.00	2.11
23	11-Jun	360	6	25.0	8.0	0	0	0.00	0.00
24	11-Jun	240	4	25.0	7.8	0	0	0.00	0.00
25	11-Jun	360	6	60.0	8.5	3	2	0.50	0.33
26	11-Jun	360	6	50.0	8.8	0	0	0.00	0.00
27	11-Jun	360	6	25.0	5.0	1	2	0.17	0.33
28	11-Jun	720	12	25.0	6.5	0	1	0.00	0.08
29	11-Jun	360	6	25.0	7.0	0	3	0.00	0.50
30	11-Jun	360	6	30.0	6.8	0	0	0.00	0.00
31	11-Jun	360	6	25.0	8.0	0	0	0.00	0.00
32	11-Jun	360	6	11.5	5.0	0	5	0.00	0.83
33	11-Jun	360	6	40.0	5.0	0	25	0.00	4.17
34	11-Jun	360	6	25.0	5.5	0	1	0.00	0.17
35	11-Jun	360	6	25.0	5.0	0	1	0.00	0.17
36	11-Jun	360	6	25.0	8.0	0	3	0.00	0.50
37	11-Jun	360	6	25.0	8.0	0	0	0.00	0.00
38	11-Jun	240	4	25.0	7.8	1	3	0.25	0.75
39	11-Jun	360	6	5.0	5.0	1	3	0.17	0.50
40	11-Jun	360	6	5.0	5.0	0	7	0.00	1.17
41	11-Jun	720	12	8.3	7.0	0	1	0.00	0.08
42	11-Jun	360	6	25.0	5.0	1	0	0.17	0.00
43	11-Jun	420	7	6.0	5.0	0	11	0.00	1.57
44	11-Jun	240	4	4.1	5.5	1	2	0.25	0.50
45	11-Jun	240	4	25.0	8.0	2	0	0.50	0.00
46	11-Jun	240	4	25.0	7.8	0	0	0.00	0.00
47	12-Jun	240	4	25.0	7.0	0	3	0.00	0.75
48	12-Jun	720	12	25.0	7.8	0	2	0.00	0.17
49	12-Jun	360	6	25.0	8.0	0	3	0.00	0.50
50	12-Jun	420	7	6.0	5.0	0	12	0.00	1.71

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Appendix Table A1. (Page 2 of 10)

Entry	Date	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chinook	Number Chum	CPUE Chinook	CPUE Chum
		Minutes	Hours						
51	12-Jun	360	6	25.0	8.0	0	1	0.00	0.17
52	12-Jun	360	6	8.3	5.0	0	15	0.00	2.50
53	12-Jun	120	2	1.6	2.5	0	2	0.00	1.00
54	12-Jun	360	6	8.3	5.0	0	12	0.00	2.00
55	12-Jun	120	2	8.3	8.0	1	3	0.50	1.50
56	12-Jun	360	6	8.3	5.0	0	1	0.00	0.17
57	12-Jun	360	6	13.3	5.0	0	2	0.00	0.33
58	12-Jun	360	6	10.0	3.5	0	4	0.00	0.67
59	12-Jun	120	2	25.0	8.0	0	1	0.00	0.50
60	12-Jun	720	12	6.0	5.0	0	20	0.00	1.67
61	12-Jun	120	2	8.3	8.0	0	1	0.00	0.50
62	12-Jun	240	4	25.0	7.8	1	0	0.25	0.00
63	12-Jun	720	12	25.0	7.8	0	1	0.00	0.08
64	12-Jun	360	6	25.0	4.0	0	8	0.00	1.33
65	12-Jun	360	6	11.5	5.5	0	7	0.00	1.17
66	12-Jun	360	6	25.0	5.5	0	0	0.00	0.00
67	12-Jun	720	12	25.0	6.0	0	53	0.00	4.42
68	12-Jun	720	12	25.0	6.5	0	1	0.00	0.08
69	12-Jun	240	4	25.0	7.8	0	0	0.00	0.00
70	12-Jun	720	12	25.0	7.8	0	8	0.00	0.67
71	12-Jun	360	6	25.0	8.0	0	0	0.00	0.00
72	12-Jun	360	6	25.0	8.0	0	2	0.00	0.33
73	12-Jun	240	4	25.0	8.0	0	6	0.00	1.50
74	13-Jun	360	6	4.1	5.5	0	2	0.00	0.33
75	13-Jun	720	12	16.6	6.5	0	2	0.00	0.17
76	13-Jun	720	12	25.0	7.8	0	29	0.00	2.42
77	13-Jun	360	6	4.1	5.0	3	0	0.50	0.00
78	13-Jun	120	2	25.0	8.0	1	0	0.50	0.00
79	13-Jun	360	6	10.0	5.0	0	1	0.00	0.17
80	13-Jun	360	6	4.1	8.0	0	0	0.00	0.00
81	13-Jun	720	12	8.3	7.0	0	0	0.00	0.00
82	13-Jun	240	4	25.0	7.8	3	0	0.75	0.00
83	13-Jun	120	2	25.0	8.0	0	0	0.00	0.00
84	13-Jun	120	2	20.0	8.0	0	0	0.00	0.00
85	13-Jun	60	1	10.0	3.0	0	3	0.00	3.00
86	13-Jun	240	4	4.1	5.5	0	0	0.00	0.00
87	13-Jun	360	6	25.0	8.0	0	0	0.00	0.00
88	13-Jun	720	12	13.3	5.5	0	3	0.00	0.25
89	13-Jun	180	3	10.0	5.5	0	4	0.00	1.33
90	13-Jun	360	6	25.0	7.0	0	2	0.00	0.33
91	13-Jun	360	6	25.0	5.5	1	22	0.17	3.67
92	13-Jun	360	6	100.0	8.0	0	2	0.00	0.33
93	13-Jun	240	4	25.0	7.8	1	0	0.25	0.00
94	13-Jun	240	4	25.0	7.8	1	0	0.25	0.00
95	13-Jun	360	6	25.0	7.0	0	11	0.00	1.83
96	13-Jun	360	6	25.0	8.0	0	0	0.00	0.00
97	13-Jun	360	6	40.0	5.0	0	45	0.00	7.50
98	13-Jun	360	6	40.0	5.0	0	11	0.00	1.83
99	13-Jun	240	4	50.0	8.0	0	0	0.00	0.00
100	13-Jun	720	12	8.3	7.0	0	0	0.00	0.00

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Appendix Table A1. (Page 3 of 10)

Entry	Date	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chinook	Number Chum	CPUE Chinook	CPUE Chum
		Minutes	Hours						
101	13-Jun	360	6	25.0	8.0	0	1	0.00	0.17
102	13-Jun	360	6	40.0	8.0	0	0	0.00	0.00
103	13-Jun	360	6	30.0	6.8	0	0	0.00	0.00
104	13-Jun	240	4	25.0	7.8	1	0	0.25	0.00
105	13-Jun	360	6	25.0	7.8	0	2	0.00	0.33
106	13-Jun	360	6	60.0	5.0	0	3	0.00	0.50
107	13-Jun	480	8	6.0	5.0	0	3	0.00	0.38
108	13-Jun	360	6	10.0	3.0	0	3	0.00	0.50
109	13-Jun	120	2	25.0	7.0	0	2	0.00	1.00
110	14-Jun	480	8	6.0	5.0	0	15	0.00	1.88
111	14-Jun	300	5	25.0	8.0	0	0	0.00	0.00
112	14-Jun	240	4	25.0	7.8	0	0	0.00	0.00
113	14-Jun	300	5	40.0	5.0	0	37	0.00	7.40
114	14-Jun	270	5	25.0	7.0	0	7	0.00	1.56
115	14-Jun	300	5	25.0	7.0	0	4	0.00	0.80
116	14-Jun	240	4	50.0	8.0	0	1	0.00	0.25
117	14-Jun	360	6	16.6	8.0	1	2	0.17	0.33
118	14-Jun	360	6	4.1	5.0	0	28	0.00	4.67
119	14-Jun	180	3	4.1	3.0	0	3	0.00	1.00
120	14-Jun	720	12	16.6	5.3	0	7	0.00	0.58
121	14-Jun	240	4	8.3	5.0	0	20	0.00	5.00
122	14-Jun	240	4	10.0	5.5	1	10	0.25	2.50
123	14-Jun	720	12	25.0	7.8	0	2	0.00	0.17
124	14-Jun	180	3	13.3	5.5	0	1	0.00	0.33
125	14-Jun	720	12	16.6	6.5	0	0	0.00	0.00
126	14-Jun	360	6	4.1	8.0	0	0	0.00	0.00
127	14-Jun	240	4	13.3	8.0	0	0	0.00	0.00
128	14-Jun	420	7	10.0	5.0	0	7	0.00	1.00
129	14-Jun	120	2	10.0	7.0	0	4	0.00	2.00
130	14-Jun	120	2	25.0	8.0	1	3	0.50	1.50
131	14-Jun	360	6	25.0	5.0	0	7	0.00	1.17
132	14-Jun	120	2	20.0	8.0	0	0	0.00	0.00
133	14-Jun	720	12	25.0	5.5	0	0	0.00	0.00
134	14-Jun	240	4	10.0	8.0	0	2	0.00	0.50
135	14-Jun	720	12	8.3	7.0	1	5	0.08	0.42
136	15-Jun	720	12	25.0	5.5	0	1	0.00	0.08
137	15-Jun	720	12	4.1	8.0	0	0	0.00	0.00
138	15-Jun	720	12	25.0	5.0	0	5	0.00	0.42
139	15-Jun	720	12	8.3	5.0	0	20	0.00	1.67
140	15-Jun	720	12	8.3	7.0	1	2	0.08	0.17
141	15-Jun	60	1	25.0	4.0	0	1	0.00	1.00
142	15-Jun	720	12	10.0	8.0	0	5	0.00	0.42
143	15-Jun	720	12	10.0	5.5	0	1	0.00	0.08
144	15-Jun	720	12	25.0	5.5	0	20	0.00	1.67
145	15-Jun	720	12	4.1	8.0	0	0	0.00	0.00
146	15-Jun	720	12	25.0	5.5	0	2	0.00	0.17
147	15-Jun	270	5	25.0	8.0	0	2	0.00	0.44
148	15-Jun	270	5	25.0	5.5	0	39	0.00	8.67
149	15-Jun	300	5	40.0	5.0	0	20	0.00	4.00
150	15-Jun	180	3	4.1	5.0	0	1	0.00	0.33

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Appendix Table A1. (Page 4 of 10)

Entry	Date	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chinook	Number Chum	CPUE Chinook	CPUE Chum
		Minutes	Hours						
151	15-Jun	300	5	6.0	5.0	0	0	0.00	0.00
152	15-Jun	240	4	50.0	8.8	0	0	0.00	0.00
153	15-Jun	270	5	25.0	5.5	0	0	0.00	0.00
154	15-Jun	330	6	25.0	8.0	1	7	0.18	1.27
155	15-Jun	270	5	8.0	5.0	0	21	0.00	4.67
156	15-Jun	300	5	25.0	6.5	0	0	0.00	0.00
157	15-Jun	300	5	25.0	7.8	1	0	0.20	0.00
158	15-Jun	360	6	60.0	8.5	0	3	0.00	0.50
159	15-Jun	240	4	30.0	6.8	0	1	0.00	0.25
160	15-Jun	330	6	8.3	7.0	0	8	0.00	1.45
161	15-Jun	270	5	4.5	5.5	0	5	0.00	1.11
162	15-Jun	270	5	50.0	7.0	0	2	0.00	0.44
163	15-Jun	300	5	50.0	5.0	0	3	0.00	0.60
164	15-Jun	210	4	25.0	8.0	0	0	0.00	0.00
165	15-Jun	240	4	25.0	8.0	1	0	0.25	0.00
166	15-Jun	390	7	25.0	7.8	0	1	0.00	0.15
167	16-Jun	300	5	40.0	5.0	0	53	0.00	10.60
168	16-Jun	480	8	25.0	5.5	0	12	0.00	1.50
169	16-Jun	420	7	25.0	6.0	0	34	0.00	4.86
170	16-Jun	360	6	25.0	7.0	0	2	0.00	0.33
171	16-Jun	300	5	25.0	5.5	0	6	0.00	1.20
172	16-Jun	330	6	25.0	5.5	1	22	0.18	4.00
173	16-Jun	300	5	6.0	5.0	0	0	0.00	0.00
174	16-Jun	720	12	13.3	5.0	0	25	0.00	2.08
175	16-Jun	720	12	8.3	7.0	0	10	0.00	0.83
176	16-Jun	720	12	13.3	8.0	1	0	0.08	0.00
177	16-Jun	720	12	8.3	5.0	1	56	0.08	4.67
178	16-Jun	720	12	25.0	8.0	1	0	0.08	0.00
179	16-Jun	720	12	4.1	5.0	0	0	0.00	0.00
180	16-Jun	720	12	20.0	8.0	0	0	0.00	0.00
181	16-Jun	720	12	4.1	8.0	0	1	0.00	0.08
182	16-Jun	720	12	25.0	5.5	1	63	0.08	5.25
183	16-Jun	720	12	10.0	5.5	0	37	0.00	3.08
184	16-Jun	720	12	25.0	7.8	0	1	0.00	0.08
185	17-Jun	720	12	25.0	5.0	0	81	0.00	6.75
186	17-Jun	720	12	16.6	5.0	0	24	0.00	2.00
187	17-Jun	720	12	8.3	5.0	1	21	0.08	1.75
188	17-Jun	720	12	4.1	5.0	0	30	0.00	2.50
189	17-Jun	720	12	16.6	5.3	0	19	0.00	1.58
190	17-Jun	720	12	4.1	8.0	0	26	0.00	2.17
191	17-Jun	720	12	25.0	5.5	1	9	0.08	0.75
192	17-Jun	720	12	25.0	5.5	0	33	0.00	2.75
193	17-Jun	720	12	25.0	5.0	0	9	0.00	0.75
194	17-Jun	720	12	25.0	8.0	0	27	0.00	2.25
195	17-Jun	330	6	25.0	5.5	0	59	0.00	10.73
196	17-Jun	360	6	25.0	8.0	0	0	0.00	0.00
197	17-Jun	300	5	100.0	5.0	0	15	0.00	3.00
198	17-Jun	360	6	25.0	5.8	0	16	0.00	2.67
199	17-Jun	420	7	25.0	5.8	0	5	0.00	0.71
200	17-Jun	450	8	4.1	5.5	0	30	0.00	4.00

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Appendix Table A1. (Page 5 of 10)

Entry	Date	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chinook	Number Chum	CPUE Chinook	CPUE Chum
		Minutes	Hours						
201	17-Jun	300	5	40.0	5.0	0	33	0.00	6.60
202	17-Jun	270	5	25.0	8.0	0	4	0.00	0.89
203	17-Jun	180	3	40.0	5.0	0	5	0.00	1.67
204	17-Jun	360	6	25.0	8.0	0	7	0.00	1.17
205	17-Jun	360	6	26.0	6.0	0	6	0.00	1.00
206	17-Jun	420	7	8.3	7.0	0	17	0.00	2.43
207	17-Jun	300	5	25.0	5.5	0	17	0.00	3.40
208	17-Jun	420	7	25.0	7.8	0	40	0.00	5.71
209	17-Jun	270	5	25.0	7.8	0	19	0.00	4.22
210	17-Jun	450	8	6.0	5.0	0	17	0.00	2.27
211	17-Jun	300	5	25.0	8.0	0	5	0.00	1.00
212	17-Jun	120	2	25.0	7.8	0	1	0.00	0.50
213	17-Jun	270	5	25.0	5.0	0	28	0.00	6.22
214	17-Jun	240	4	25.0	8.0	0	1	0.00	0.25
215	18-Jun	300	5	25.0	8.0	0	24	0.00	4.80
216	18-Jun	360	6	25.0	7.0	0	65	0.00	10.83
217	18-Jun	390	7	25.0	8.0	0	33	0.00	5.08
218	18-Jun	450	8	25.0	6.0	0	28	0.00	3.73
219	18-Jun	360	6	25.0	6.0	0	37	0.00	6.17
220	18-Jun	330	6	25.0	8.0	0	30	0.00	5.45
221	18-Jun	270	5	25.0	7.8	0	12	0.00	2.67
222	18-Jun	270	5	25.0	5.5	0	30	0.00	6.67
223	18-Jun	300	5	25.0	8.0	1	2	0.20	0.40
224	18-Jun	330	6	25.0	8.0	1	2	0.18	0.36
225	18-Jun	240	4	8.3	7.0	0	19	0.00	4.75
226	18-Jun	270	5	30.0	6.8	0	54	0.00	12.00
227	18-Jun	300	5	25.0	8.0	1	0	0.20	0.00
228	18-Jun	360	6	50.0	5.0	1	54	0.17	9.00
229	18-Jun	120	2	4.1	5.0	0	13	0.00	6.50
230	18-Jun	120	2	4.1	5.0	0	16	0.00	8.00
231	18-Jun	120	2	4.1	5.0	0	23	0.00	11.50
232	18-Jun	360	6	8.3	8.0	1	0	0.17	0.00
233	18-Jun	360	6	25.0	5.5	0	92	0.00	15.33
234	18-Jun	180	3	13.3	5.5	0	39	0.00	13.00
235	18-Jun	720	12	10.0	5.0	0	49	0.00	4.08
236	18-Jun	720	12	10.0	8.0	0	0	0.00	0.00
237	18-Jun	360	6	10.0	5.0	0	13	0.00	2.17
238	18-Jun	120	2	5.0	5.0	0	10	0.00	5.00
239	18-Jun	120	2	4.1	8.0	0	0	0.00	0.00
240	18-Jun	180	3	29.0	5.0	0	30	0.00	10.00
241	18-Jun	180	3	16.6	5.5	0	5	0.00	1.67
242	18-Jun	180	3	50.0	5.0	0	38	0.00	12.67
243	18-Jun	180	3	16.6	5.3	0	9	0.00	3.00
244	18-Jun	120	2	25.0	8.0	1	0	0.50	0.00
245	18-Jun	360	6	20.0	8.0	0	1	0.00	0.17
246	18-Jun	180	3	8.3	8.0	0	14	0.00	4.67
247	18-Jun	180	3	50.0	5.0	0	7	0.00	2.33
248	18-Jun	240	4	10.0	8.0	1	8	0.25	2.00
249	18-Jun	240	4	4.1	5.0	1	7	0.25	1.75
250	19-Jun	300	5	60	6.5	0.0	20	0.00	4.00

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Appendix Table A1. (Page 6 of 10)

Entry	Date	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chinook	Number Chum	CPUE Chinook	CPUE Chum
		Minutes	Hours						
251	19-Jun	345	6	60	6.5	1.0	68	0.17	11.83
252	19-Jun	330	6	25	5.5	0.0	36	0.00	6.55
253	19-Jun	270	5	4	8.0	1.0	0	0.22	0.00
254	19-Jun	300	5	40	5.0	0.0	39	0.00	7.80
255	19-Jun	300	5	60	6.5	0.0	31	0.00	6.20
256	19-Jun	240	4	25	8.0	0.0	15	0.00	3.75
257	19-Jun	300	5	25	7.8	0.0	52	0.00	10.40
258	19-Jun	120	2	10	8.0	0.0	1	0.00	0.50
259	19-Jun	360	6	25	8.0	0.0	10	0.00	1.67
260	19-Jun	360	6	8	7.0	0.0	25	0.00	4.17
261	19-Jun	360	6	17	5.3	0.0	13	0.00	2.17
262	19-Jun	360	6	25	7.8	0.0	0	0.00	0.00
263	19-Jun	360	6	150	5.0	0.0	37	0.00	6.17
264	19-Jun	360	6	16	8.0	0.0	1	0.00	0.17
265	19-Jun	360	6	10	5.0	0.0	6	0.00	1.00
266	19-Jun	360	6	25	5.0	0.0	2	0.00	0.33
267	19-Jun	360	6	25	5.0	0.0	31	0.00	5.17
268	19-Jun	360	6	50	5.0	1.0	35	0.17	5.83
269	19-Jun	360	6	25	5.0	0.0	64	0.00	10.67
270	19-Jun	360	6	10	7.0	0.0	6	0.00	1.00
271	19-Jun	360	6	4	5.5	0.0	6	0.00	1.00
272	19-Jun	360	6	25	5.0	0.0	22	0.00	3.67
273	19-Jun	360	6	25	5.0	0.0	50	0.00	8.33
274	19-Jun	360	6	25.0	5.0	1	35	0.17	5.83
275	19-Jun	360	6	8.3	5.0	0	18	0.00	3.00
276	20-Jun	360	6	150.0	5.0	0	65	0.00	10.83
277	20-Jun	360	6	25.0	5.0	0	47	0.00	7.83
278	20-Jun	360	6	150.0	5.0	0	40	0.00	6.67
279	20-Jun	360	6	4.1	8.0	0	0	0.00	0.00
280	20-Jun	240	4	8.3	5.0	0	37	0.00	9.25
281	20-Jun	240	4	8.3	5.0	0	60	0.00	15.00
282	20-Jun	360	6	35.0	5.0	0	40	0.00	6.67
283	20-Jun	360	6	4.1	5.0	0	30	0.00	5.00
284	20-Jun	180	3	8.3	5.0	0	35	0.00	11.67
285	20-Jun	360	6	8.3	5.0	0	40	0.00	6.67
286	20-Jun	360	6	8.3	5.0	0	55	0.00	9.17
287	20-Jun	300	5	13.3	5.0	0	38	0.00	7.60
288	20-Jun	240	4	50.0	5.0	0	24	0.00	6.00
289	20-Jun	360	6	8.3	5.0	0	30	0.00	5.00
290	20-Jun	360	6	10.0	5.0	0	12	0.00	2.00
291	20-Jun	240	4	25.0	5.0	2	64	0.50	16.00
292	20-Jun	360	6	16.6	5.0	0	30	0.00	5.00
293	20-Jun	240	4	4.1	8.0	0	22	0.00	5.50
294	20-Jun	300	5	100.0	5.0	1	36	0.20	7.20
295	20-Jun	240	4	10.0	7.0	0	4	0.00	1.00
296	20-Jun	240	4	25.0	5.0	1	60	0.25	15.00
297	20-Jun	300	5	26.0	6.0	0	22	0.00	4.40
298	20-Jun	330	6	25.0	7.0	0	39	0.00	7.09
299	20-Jun	240	4	25.0	8.0	1	0	0.25	0.00
300	20-Jun	330	6	25.0	6.0	0	41	0.00	7.45

(continued)

Appendix Table A1. (Page 7 of 10)

Entry	Date	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chinook	Number Chum	CPUE Chinook	CPUE Chum
		Minutes	Hours						
301	20-Jun	240	4	25.0	6.8	0	10	0.00	2.50
302	20-Jun	300	5	25.0	7.8	0	39	0.00	7.80
303	20-Jun	240	4	25.0	7.0	0	2	0.00	0.50
304	20-Jun	330	6	25.0	5.5	1	12	0.18	2.18
305	21-Jun	360	6	4.1	5.0	0	30	0.00	5.00
306	21-Jun	360	6	16.6	5.0	0	59	0.00	9.83
307	21-Jun	300	5	25.0	5.0	0	50	0.00	10.00
308	21-Jun	300	5	25.0	5.0	0	20	0.00	4.00
309	21-Jun	360	6	25.0	5.0	2	18	0.33	3.00
310	21-Jun	360	6	4.1	8.0	0	0	0.00	0.00
311	21-Jun	360	6	25.0	5.0	0	27	0.00	4.50
312	21-Jun	300	5	25.0	5.0	0	8	0.00	1.60
313	21-Jun	330	6	25.0	6.0	0	19	0.00	3.45
314	21-Jun	210	4	25.0	8.0	0	5	0.00	1.43
315	21-Jun	420	7	30.0	8.0	1	3	0.14	0.43
316	21-Jun	360	6	25.0	6.8	0	64	0.00	10.67
317	21-Jun	300	5	25.0	5.5	0	20	0.00	4.00
318	21-Jun	360	6	25.0	7.0	0	47	0.00	7.83
319	21-Jun	300	5	25.0	7.8	0	24	0.00	4.80
320	21-Jun	300	5	25.0	6.8	0	12	0.00	2.40
321	21-Jun	330	6	25.0	7.5	0	28	0.00	5.09
322	21-Jun	330	6	25.0	7.8	1	41	0.18	7.45
323	21-Jun	300	5	25.0	5.5	0	39	0.00	7.80
324	21-Jun	240	4	25.0	6.8	0	49	0.00	12.25
325	21-Jun	330	6	25.0	5.0	0	32	0.00	5.82
326	22-Jun	360	6	25.0	5.0	0	1	0.00	0.17
327	22-Jun	300	5	25.0	5.0	0	20	0.00	4.00
328	22-Jun	360	6	25.0	5.0	0	12	0.00	2.00
329	22-Jun	360	6	25.0	5.0	1	32	0.17	5.33
330	22-Jun	360	6	25.0	5.0	0	1	0.00	0.17
331	22-Jun	360	6	4.1	5.0	0	14	0.00	2.33
332	22-Jun	360	6	4.1	5.0	0	1	0.00	0.17
333	22-Jun	360	6	15.0	5.0	0	3	0.00	0.50
334	22-Jun	360	6	4.1	5.0	0	12	0.00	2.00
335	22-Jun	360	6	4.1	5.0	0	10	0.00	1.67
336	22-Jun	360	6	25.0	5.0	0	12	0.00	2.00
337	22-Jun	360	6	25.0	5.0	0	6	0.00	1.00
338	22-Jun	360	6	4.1	5.0	0	10	0.00	1.67
339	22-Jun	360	6	4.1	5.0	1	14	0.17	2.33
340	22-Jun	360	6	25.0	5.0	0	37	0.00	6.17
341	22-Jun	360	6	25.0	5.0	0	2	0.00	0.33
342	22-Jun	360	6	25.0	5.0	0	9	0.00	1.50
343	22-Jun	360	6	25.0	5.0	0	21	0.00	3.50
344	22-Jun	360	6	10.0	3.5	0	20	0.00	3.33
345	22-Jun	360	6	25.0	5.0	0	37	0.00	6.17
346	22-Jun	360	6	16.6	5.0	0	3	0.00	0.50
347	22-Jun	360	6	25.0	8.0	0	0	0.00	0.00
348	22-Jun	360	6	4.1	5.0	0	18	0.00	3.00
349	22-Jun	360	6	25.0	5.0	0	15	0.00	2.50
350	22-Jun	360	6	25.0	8.0	1	0	0.17	0.00

(continued)

Appendix Table A1. (Page 8 of 10)

Entry	Date	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chinook	Number Chum	CPUE Chinook	CPUE Chum
		Minutes	Hours						
351	22-Jun	360	6	25.0	8.0	0	0	0.00	0.00
352	22-Jun	360	6	15.0	5.0	0	4	0.00	0.67
353	22-Jun	360	6	16.6	5.0	1	11	0.17	1.83
354	22-Jun	360	6	25.0	6.5	0	20	0.00	3.33
355	22-Jun	330	6	25.0	6.5	0	10	0.00	1.82
356	22-Jun	300	5	25.0	5.5	0	17	0.00	3.40
357	22-Jun	360	6	25.0	8.0	1	0	0.17	0.00
358	22-Jun	390	7	25.0	5.0	0	20	0.00	3.08
359	22-Jun	480	8	25.0	7.8	0	32	0.00	4.00
360	23-Jun	420	7	25.0	5.0	0	2	0.00	0.29
361	23-Jun	480	8	25.0	7.0	0	3	0.00	0.38
362	23-Jun	390	7	30.0	6.8	0	5	0.00	0.77
363	23-Jun	450	8	25.0	6.0	0	6	0.00	0.80
364	23-Jun	420	7	25.0	4.0	0	2	0.00	0.29
365	23-Jun	360	6	25.0	7.5	0	8	0.00	1.33
366	23-Jun	300	5	16.6	8.0	0	0	0.00	0.00
367	23-Jun	390	7	25.0	6.8	0	2	0.00	0.31
368	23-Jun	480	8	25.0	5.0	0	3	0.00	0.38
369	23-Jun	480	8	25.0	5.0	0	14	0.00	1.75
370	23-Jun	480	8	25.0	5.0	0	7	0.00	0.88
371	23-Jun	390	7	25.0	7.0	0	2	0.00	0.31
372	24-Jun	510	9	25.0	6.0	0	26	0.00	3.06
373	24-Jun	480	8	25.0	3.5	0	2	0.00	0.25
374	24-Jun	450	8	25.0	5.8	0	3	0.00	0.40
375	24-Jun	480	8	25.0	6.5	0	1	0.00	0.13
376	25-Jun	360	6	25.0	5.0	0	5	0.00	0.83
377	25-Jun	360	6	4.1	5.0	0	3	0.00	0.50
378	26-Jun	360	6	4.1	5.0	0	7	0.00	1.17
379	26-Jun	420	7	25.0	5.3	0	5	0.00	0.71
380	26-Jun	360	6	150.0	5.4	0	11	0.00	1.83
381	26-Jun	420	7	13.3	5.6	1	7	0.14	1.00
382	26-Jun	360	6	25.0	5.0	0	15	0.00	2.50
383	26-Jun	360	6	13.3	5.6	1	5	0.17	0.83
384	26-Jun	420	7	25.0	5.0	1	19	0.14	2.71
385	26-Jun	360	6	25.0	5.0	0	7	0.00	1.17
386	26-Jun	180	3	4.1	5.0	0	6	0.00	2.00
387	26-Jun	360	6	13.3	5.0	0	4	0.00	0.67
388	26-Jun	360	6	25.0	8.0	0	0	0.00	0.00
389	26-Jun	360	6	25.0	5.0	0	1	0.00	0.17
390	26-Jun	360	6	25.0	8.0	0	0	0.00	0.00
391	26-Jun	360	6	25.0	8.0	0	0	0.00	0.00
392	26-Jun	240	4	25.0	8.0	0	0	0.00	0.00
393	26-Jun	360	6	25.0	8.0	0	0	0.00	0.00
394	26-Jun	480	8	25.0	6.5	0	5	0.00	0.63
395	26-Jun	390	7	25.0	5.0	0	3	0.00	0.46
396	26-Jun	330	6	25.0	2.5	0	1	0.00	0.18
397	26-Jun	360	6	25.0	6.0	0	4	0.00	0.67
398	26-Jun	420	7	25.0	6.8	0	12	0.00	1.71
399	27-Jun	390	7	25.0	7.8	0	5	0.00	0.77
400	27-Jun	360	6	25.0	8.0	0	0	0.00	0.00

(continued)

Appendix Table A1. (Page 9 of 10)

Entry	Date	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chinook	Number Chum	CPUE Chinook	CPUE Chum
		Minutes	Hours						
401	27-Jun	360	6	25.0	6.5	0	0	0.00	0.00
402	27-Jun	420	7	25.0	8.0	0	0	0.00	0.00
403	28-Jun	390	7	25.0	8.0	1	5	0.15	0.77
404	28-Jun	420	7	25.0	5.0	1	7	0.14	1.00
405	28-Jun	450	8	25.0	5.0	1	13	0.13	1.73
406	28-Jun	420	7	13.3	5.0	0	13	0.00	1.86
407	28-Jun	360	6	25.0	5.3	0	21	0.00	3.50
408	28-Jun	240	4	25.0	8.0	1	0	0.25	0.00
409	28-Jun	360	6	25.0	5.0	0	16	0.00	2.67
410	28-Jun	240	4	25.0	8.0	0	0	0.00	0.00
411	28-Jun	360	6	25.0	5.0	0	11	0.00	1.83
412	28-Jun	720	12	13.3	5.0	0	42	0.00	3.50
413	28-Jun	240	4	25.0	5.0	1	26	0.25	6.50
414	28-Jun	240	4	25.0	5.0	0	0	0.00	0.00
415	28-Jun	360	6	25.0	5.0	0	14	0.00	2.33
416	28-Jun	360	6	25.0	5.0	1	9	0.17	1.50
417	28-Jun	360	6	25.0	5.0	0	15	0.00	2.50
418	28-Jun	360	6	25.0	5.0	0	44	0.00	7.33
419	28-Jun	360	6	25.0	5.0	0	7	0.00	1.17
420	29-Jun	720	12	25.0	5.0	0	5	0.00	0.42
421	29-Jun	720	12	25.0	8.0	0	0	0.00	0.00
422	29-Jun	360	6	150.0	5.0	0	20	0.00	3.33
423	29-Jun	420	7	25.0	4.5	0	11	0.00	1.57
424	29-Jun	420	7	25.0	8.0	0	0	0.00	0.00
425	29-Jun	420	7	50.0	8.0	0	1	0.00	0.14
426	29-Jun	420	7	20.0	5.0	0	3	0.00	0.43
427	29-Jun	480	8	25.0	5.0	0	8	0.00	1.00
428	29-Jun	300	5	25.0	5.0	0	4	0.00	0.80
429	29-Jun	360	6	25.0	7.8	0	1	0.00	0.17
430	29-Jun	360	6	25.0	8.0	0	2	0.00	0.33
431	29-Jun	360	6	25.0	5.5	0	2	0.00	0.33
432	30-Jun	420	7	25.0	4.5	0	1	0.00	0.14
433	30-Jun	420	7	25.0	4.5	0	1	0.00	0.14
434	30-Jun	420	7	25.0	5.0	0	8	0.00	1.14
435	30-Jun	420	7	25.0	8.0	0	0	0.00	0.00
436	30-Jun	420	7	25.0	8.0	0	0	0.00	0.00
437	30-Jun	420	7	25.0	5.0	0	4	0.00	0.57
438	30-Jun	420	7	25.0	5.0	0	8	0.00	1.14
439	30-Jun	420	7	25.0	5.0	0	4	0.00	0.57
440	30-Jun	420	7	25.0	5.0	0	1	0.00	0.14
441	30-Jun	420	7	25.0	5.0	0	1	0.00	0.14
442	30-Jun	420	7	25.0	5.0	0	0	0.00	0.00
443	30-Jun	420	7	25.0	6.8	0	2	0.00	0.29
444	1-Jul	420	7	25.0	5.8	0	1	0.00	0.14
445	1-Jul	510	9	25.0	6.0	0	5	0.00	0.59
446	1-Jul	420	7	25.0	5.5	0	4	0.00	0.57
447	2-Jul	360	6	25.0	5.0	0	5	0.00	0.83
448	2-Jul	360	6	25.0	5.0	0	3	0.00	0.50
449	2-Jul	360	6	25.0	5.0	0	4	0.00	0.67
450	2-Jul	360	6	25.0	5.0	0	1	0.00	0.17

(continued)

Appendix Table A.2. Hooper Bay summer chum salmon (mesh size smaller than 6.5") subsistence harvest by entry number, time fished, net length, mesh size and CPUE, 2000.

Entry	Date	Time Fished		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
1	08-Jun	360	6	16	6.5	3	0.50
2	08-Jun	360	6	10	6.5	0	0.00
3	08-Jun	180	3	10	3.5	2	0.67
5	08-Jun	1,080	18	50	5.0	1	0.06
8	09-Jun	1,080	18	50	5.0	11	0.61
9	09-Jun	1,440	24	3.3	6.0	2	0.08
11	09-Jun	720	12	4.1	5.0	2	0.17
12	09-Jun	120	2	10	2.5	1	0.50
13	09-Jun	720	12	16	6.5	3	0.25
19	10-Jun	720	12	60	5.0	18	1.50
22	10-Jun	1,080	18	50	5.0	38	2.11
27	11-Jun	360	6	25	5.0	2	0.33
28	11-Jun	720	12	25	6.5	1	0.08
32	11-Jun	360	6	11.5	5.0	5	0.83
33	11-Jun	360	6	40	5.0	25	4.17
34	11-Jun	360	6	25	5.5	1	0.17
35	11-Jun	360	6	25	5.0	1	0.17
39	11-Jun	360	6	5	5.0	3	0.50
40	11-Jun	360	6	5	5.0	7	1.17
42	11-Jun	360	6	25	5.0	0	0.00
43	11-Jun	420	7	6	5.0	11	1.57
44	11-Jun	240	4	4.1	5.5	2	0.50
50	12-Jun	420	7	6	5.0	12	1.71
52	12-Jun	360	6	8.3	5.0	15	2.50
53	12-Jun	120	2	1.6	2.5	2	1.00
54	12-Jun	360	6	8.3	5.0	12	2.00
56	12-Jun	360	6	8.3	5.0	1	0.17
57	12-Jun	360	6	13.3	5.0	2	0.33
58	12-Jun	360	6	10	3.5	4	0.67
60	12-Jun	720	12	6	5.0	20	1.67
64	12-Jun	360	6	25	4.0	8	1.33
65	12-Jun	360	6	11.5	5.5	7	1.17
66	12-Jun	360	6	25	5.5	0	0.00
67	12-Jun	720	12	25	6.0	53	4.42
68	12-Jun	720	12	25	6.5	1	0.08
74	13-Jun	360	6	4.1	5.5	2	0.33
75	13-Jun	720	12	16.6	6.5	2	0.17
77	13-Jun	360	6	4.1	5.0	0	0.00
79	13-Jun	360	6	10	5.0	1	0.17
85	13-Jun	60	1	10	3.0	3	3.00
86	13-Jun	240	4	4.1	5.5	0	0.00
88	13-Jun	720	12	13.3	5.5	3	0.25
89	13-Jun	180	3	10	5.5	4	1.33

(continued)

Appendix Table A.2. (Page 3 of 7)

Entry	Date	Time Fished		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
182	16-Jun	720	12	25	5.5	63	5.25
183	16-Jun	720	12	10	5.5	37	3.08
185	17-Jun	720	12	25	5.0	81	6.75
186	17-Jun	720	12	16.6	5.0	24	2.00
187	17-Jun	720	12	8.3	5.0	21	1.75
188	17-Jun	720	12	4.1	5.0	30	2.50
189	17-Jun	720	12	16.6	5.3	19	1.58
191	17-Jun	720	12	25	5.5	9	0.75
192	17-Jun	720	12	25	5.5	33	2.75
193	17-Jun	720	12	25	5.0	9	0.75
195	17-Jun	330	6	25	5.5	59	10.73
197	17-Jun	300	5	100	5.0	15	3.00
198	17-Jun	360	6	25	5.8	16	2.67
199	17-Jun	420	7	25	5.8	5	0.71
200	17-Jun	450	8	4.1	5.5	30	4.00
201	17-Jun	300	5	40	5.0	33	6.60
203	17-Jun	180	3	40	5.0	5	1.67
205	17-Jun	360	6	26	6.0	6	1.00
207	17-Jun	300	5	25	5.5	17	3.40
210	17-Jun	450	8	6	5.0	17	2.27
213	17-Jun	270	5	25	5.0	28	6.22
218	18-Jun	450	8	25	6.0	28	3.73
219	18-Jun	360	6	25	6.0	37	6.17
222	18-Jun	270	5	25	5.5	30	6.67
228	18-Jun	360	6	50	5.0	54	9.00
229	18-Jun	120	2	4.1	5.0	13	6.50
230	18-Jun	120	2	4.1	5.0	16	8.00
231	18-Jun	120	2	4.1	5.0	23	11.50
233	18-Jun	360	6	25	5.5	92	15.33
234	18-Jun	180	3	13.3	5.5	39	13.00
235	18-Jun	720	12	10	5.0	49	4.08
237	18-Jun	360	6	10	5.0	13	2.17
238	18-Jun	120	2	5	5.0	10	5.00
240	18-Jun	180	3	29	5.0	30	10.00
241	18-Jun	180	3	16.6	5.5	5	1.67
242	18-Jun	180	3	50	5.0	38	12.67
243	18-Jun	180	3	16.6	5.3	9	3.00
247	18-Jun	180	3	50	5.0	7	2.33
249	18-Jun	240	4	4.1	5.0	7	1.75
250	19-Jun	300	5	60	6.5	20	4.00
251	19-Jun	345	6	60	6.5	68	11.83
252	19-Jun	330	6	25	5.5	36	6.55
254	19-Jun	300	5	40	5.0	39	7.80

(continued)

Appendix Table A.2. (Page 4 of 7)

Entry	Date	Time Fished		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
255	19-Jun	300	5	60	6.5	31	6.20
261	19-Jun	360	6	16.6	5.3	13	2.17
263	19-Jun	360	6	150	5.0	37	6.17
265	19-Jun	360	6	10	5.0	6	1.00
266	19-Jun	360	6	25	5.0	2	0.33
267	19-Jun	360	6	25	5.0	31	5.17
268	19-Jun	360	6	50	5.0	35	5.83
269	19-Jun	360	6	25	5.0	64	10.67
271	19-Jun	360	6	4.2	5.5	6	1.00
272	19-Jun	360	6	25	5.0	22	3.67
273	19-Jun	360	6	25	5.0	50	8.33
274	19-Jun	360	6	25	5.0	35	5.83
275	19-Jun	360	6	8.3	5.0	18	3.00
276	20-Jun	360	6	150	5.0	65	10.83
277	20-Jun	360	6	25	5.0	47	7.83
278	20-Jun	360	6	150	5.0	40	6.67
280	20-Jun	240	4	8.3	5.0	37	9.25
281	20-Jun	240	4	8.3	5.0	60	15.00
282	20-Jun	360	6	35	5.0	40	6.67
283	20-Jun	360	6	4.1	5.0	30	5.00
284	20-Jun	180	3	8.3	5.0	35	11.67
285	20-Jun	360	6	8.3	5.0	40	6.67
286	20-Jun	360	6	8.3	5.0	55	9.17
287	20-Jun	300	5	13.3	5.0	38	7.60
288	20-Jun	240	4	50	5.0	24	6.00
289	20-Jun	360	6	8.3	5.0	30	5.00
290	20-Jun	360	6	10	5.0	12	2.00
291	20-Jun	240	4	25	5.0	64	16.00
292	20-Jun	360	6	16.6	5.0	30	5.00
294	20-Jun	300	5	100	5.0	36	7.20
296	20-Jun	240	4	25	5.0	60	15.00
297	20-Jun	300	5	26	6.0	22	4.40
300	20-Jun	330	6	25	6.0	41	7.45
304	20-Jun	330	6	25	5.5	12	2.18
305	21-Jun	360	6	4.1	5.0	30	5.00
306	21-Jun	360	6	16.6	5.0	59	9.83
307	21-Jun	300	5	25	5.0	50	10.00
308	21-Jun	300	5	25	5.0	20	4.00
309	21-Jun	360	6	25	5.0	18	3.00
311	21-Jun	360	6	25	5.0	27	4.50
312	21-Jun	300	5	25	5.0	8	1.60
313	21-Jun	330	6	25	6.0	19	3.45
317	21-Jun	300	5	25	5.5	20	4.00

(continued)

Appendix Table A.2. (Page 5 of 7)

Entry	Date	Time Fished		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
323	21-Jun	300	5	25	5.5	39	7.80
325	21-Jun	330	6	25	5.0	32	5.82
326	22-Jun	360	6	25	5.0	1	0.17
327	22-Jun	300	5	25	5.0	20	4.00
328	22-Jun	360	6	25	5.0	12	2.00
329	22-Jun	360	6	25	5.0	32	5.33
330	22-Jun	360	6	25	5.0	1	0.17
331	22-Jun	360	6	4.1	5.0	14	2.33
332	22-Jun	360	6	4.1	5.0	1	0.17
333	22-Jun	360	6	15	5.0	3	0.50
334	22-Jun	360	6	4.1	5.0	12	2.00
335	22-Jun	360	6	4.1	5.0	10	1.67
336	22-Jun	360	6	25	5.0	12	2.00
337	22-Jun	360	6	25	5.0	6	1.00
338	22-Jun	360	6	4.1	5.0	10	1.67
339	22-Jun	360	6	4.1	5.0	14	2.33
340	22-Jun	360	6	25	5.0	37	6.17
341	22-Jun	360	6	25	5.0	2	0.33
342	22-Jun	360	6	25	5.0	9	1.50
343	22-Jun	360	6	25	5.0	21	3.50
344	22-Jun	360	6	10	3.5	20	3.33
345	22-Jun	360	6	25	5.0	37	6.17
346	22-Jun	360	6	16.6	5.0	3	0.50
348	22-Jun	360	6	4.1	5.0	18	3.00
349	22-Jun	360	6	25	5.0	15	2.50
352	22-Jun	360	6	15	5.0	4	0.67
353	22-Jun	360	6	16.6	5.0	11	1.83
354	22-Jun	360	6	25	6.5	20	3.33
355	22-Jun	330	6	25	6.5	10	1.82
356	22-Jun	300	5	25	5.5	17	3.40
358	22-Jun	390	7	25	5.0	20	3.08
360	23-Jun	420	7	25	5.0	2	0.29
363	23-Jun	450	8	25	6.0	6	0.80
364	23-Jun	420	7	25	4.0	2	0.29
368	23-Jun	480	8	25	5.0	3	0.38
369	23-Jun	480	8	25	5.0	14	1.75
370	23-Jun	480	8	25	5.0	7	0.88
372	24-Jun	510	9	25	6.0	26	3.06
373	24-Jun	480	8	25	3.5	2	0.25
374	24-Jun	450	8	25	5.8	3	0.40
375	24-Jun	480	8	25	6.5	1	0.13
376	25-Jun	360	6	25	5.0	5	0.83
377	25-Jun	360	6	4.1	5.0	3	0.50

(continued)

Appendix Table A.2. (Page 6 of 7)

Entry	Date	Time Fished		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
378	26-Jun	360	6	4.1	5.0	7	1.17
379	26-Jun	420	7	25	5.3	5	0.71
380	26-Jun	360	6	150	5.4	11	1.83
381	26-Jun	420	7	13.3	5.6	7	1.00
382	26-Jun	360	6	25	5.0	15	2.50
383	26-Jun	360	6	13.3	5.6	5	0.83
384	26-Jun	420	7	25	5.0	19	2.71
385	26-Jun	360	6	25	5.0	7	1.17
386	26-Jun	180	3	4.1	5.0	6	2.00
387	26-Jun	360	6	13.3	5.0	4	0.67
389	26-Jun	360	6	25	5.0	1	0.17
394	26-Jun	480	8	25	6.5	5	0.63
395	26-Jun	390	7	25	5.0	3	0.46
396	26-Jun	330	6	25	2.5	1	0.18
397	26-Jun	360	6	25	6.0	4	0.67
401	27-Jun	360	6	25	6.5	0	0.00
404	28-Jun	420	7	25	5.0	7	1.00
405	28-Jun	450	8	25	5.0	13	1.73
406	28-Jun	420	7	13.3	5.0	13	1.86
407	28-Jun	360	6	25	5.3	21	3.50
409	28-Jun	360	6	25	5.0	16	2.67
411	28-Jun	360	6	25	5.0	11	1.83
412	28-Jun	720	12	13.3	5.0	42	3.50
413	28-Jun	240	4	25	5.0	26	6.50
414	28-Jun	240	4	25	5.0	0	0.00
415	28-Jun	360	6	25	5.0	14	2.33
416	28-Jun	360	6	25	5.0	9	1.50
417	28-Jun	360	6	25	5.0	15	2.50
418	28-Jun	360	6	25	5.0	44	7.33
419	28-Jun	360	6	25	5.0	7	1.17
420	29-Jun	720	12	25	5.0	5	0.42
422	29-Jun	360	6	150	5.0	20	3.33
423	29-Jun	420	7	25	4.5	11	1.57
426	29-Jun	420	7	20	5.0	3	0.43
427	29-Jun	480	8	25	5.0	8	1.00
428	29-Jun	300	5	25	5.0	4	0.80
431	29-Jun	360	6	25	5.5	2	0.33
432	30-Jun	420	7	25	4.5	1	0.14
433	30-Jun	420	7	25	4.5	1	0.14
434	30-Jun	420	7	25	5.0	8	1.14
437	30-Jun	420	7	25	5.0	4	0.57
438	30-Jun	420	7	25	5.0	8	1.14
439	30-Jun	420	7	25	5.0	4	0.57

(continued)

Appendix Table A.2. (Page 7 of 7)

Entry	Date	Time Fished		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
440	30-Jun	420	7	25	5.0	1	0.14
441	30-Jun	420	7	25	5.0	1	0.14
442	30-Jun	420	7	25	5.0	0	0.00
444	01-Jul	420	7	25	5.8	1	0.14
445	01-Jul	510	9	25	6.0	5	0.59
446	01-Jul	420	7	25	5.5	4	0.57
447	02-Jul	360	6	25	5.0	5	0.83
448	02-Jul	360	6	25	5.0	3	0.50
449	02-Jul	360	6	25	5.0	4	0.67
450	02-Jul	360	6	25	5.0	1	0.17
452	02-Jul	360	6	25	5.0	2	0.33
455	02-Jul	360	6	25	5.0	2	0.33

Appendix Table A.3. Hooper Bay chinook salmon (mesh size 6.5" or greater) subsistence harvest by entry number, time fished, net length, mesh size and CPUE, 2000.

Entry	Day	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
4	8-Jun	720	12	50.0	7.8	1	0.08
6	8-Jun	180	3	25.0	7.0	1	0.33
7	9-Jun	360	6	16.7	7.8	0	0.00
10	9-Jun	720	12	25.0	7.0	0	0.00
14	9-Jun	720	12	50.0	7.0	1	0.08
15	10-Jun	360	6	100.0	8.0	0	0.00
16	10-Jun	240	4	100.0	8.0	0	0.00
17	10-Jun	720	12	100.0	7.0	0	0.00
18	10-Jun	120	2	50.0	8.0	0	0.00
20	10-Jun	360	6	8.3	7.0	0	0.00
21	10-Jun	720	12	25.0	7.8	0	0.00
23	11-Jun	360	6	25.0	8.0	0	0.00
24	11-Jun	240	4	25.0	7.8	0	0.00
25	11-Jun	360	6	60.0	8.5	3	0.50
26	11-Jun	360	6	50.0	8.8	0	0.00
29	11-Jun	360	6	25.0	7.0	0	0.00
30	11-Jun	360	6	30.0	6.8	0	0.00
31	11-Jun	360	6	25.0	8.0	0	0.00
36	11-Jun	360	6	25.0	8.0	0	0.00
37	11-Jun	360	6	25.0	8.0	0	0.00
38	11-Jun	240	4	25.0	7.8	1	0.25
41	11-Jun	720	12	8.3	7.0	0	0.00
45	11-Jun	240	4	25.0	8.0	2	0.50
46	11-Jun	240	4	25.0	7.8	0	0.00
47	12-Jun	240	4	25.0	7.0	0	0.00
48	12-Jun	720	12	25.0	7.8	0	0.00
49	12-Jun	360	6	25.0	8.0	0	0.00
51	12-Jun	360	6	25.0	8.0	0	0.00
55	12-Jun	120	2	8.3	8.0	1	0.50
59	12-Jun	120	2	25.0	8.0	0	0.00
61	12-Jun	120	2	8.3	8.0	0	0.00
62	12-Jun	240	4	25.0	7.8	1	0.25
63	12-Jun	720	12	25.0	7.8	0	0.00
69	12-Jun	240	4	25.0	7.8	0	0.00
70	12-Jun	720	12	25.0	7.8	0	0.00
71	12-Jun	360	6	25.0	8.0	0	0.00
72	12-Jun	360	6	25.0	8.0	0	0.00
73	12-Jun	240	4	25.0	8.0	0	0.00
76	13-Jun	720	12	25.0	7.8	0	0.00
78	13-Jun	120	2	25.0	8.0	1	0.50
80	13-Jun	360	6	4.1	8.0	0	0.00

(continued)

Appendix Table A.3. (Page 2 of 5)

Entry	Day	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
81	13-Jun	720	12	8.3	7.0	0	0.00
82	13-Jun	240	4	25.0	7.8	3	0.75
83	13-Jun	120	2	25.0	8.0	0	0.00
84	13-Jun	120	2	20.0	8.0	0	0.00
87	13-Jun	360	6	25.0	8.0	0	0.00
90	13-Jun	360	6	25.0	7.0	0	0.00
92	13-Jun	360	6	100.0	8.0	0	0.00
93	13-Jun	240	4	25.0	7.8	1	0.25
94	13-Jun	240	4	25.0	7.8	1	0.25
95	13-Jun	360	6	25.0	7.0	0	0.00
96	13-Jun	360	6	25.0	8.0	0	0.00
99	13-Jun	240	4	50.0	8.0	0	0.00
100	13-Jun	720	12	8.3	7.0	0	0.00
101	13-Jun	360	6	25.0	8.0	0	0.00
102	13-Jun	360	6	40.0	8.0	0	0.00
103	13-Jun	360	6	30.0	6.8	0	0.00
104	13-Jun	240	4	25.0	7.8	1	0.25
105	13-Jun	360	6	25.0	7.8	0	0.00
109	13-Jun	120	2	25.0	7.0	0	0.00
111	14-Jun	300	5	25.0	8.0	0	0.00
112	14-Jun	240	4	25.0	7.8	0	0.00
114	14-Jun	270	5	25.0	7.0	0	0.00
115	14-Jun	300	5	25.0	7.0	0	0.00
116	14-Jun	240	4	50.0	8.0	0	0.00
117	14-Jun	360	6	16.6	8.0	1	0.17
123	14-Jun	720	12	25.0	7.8	0	0.00
126	14-Jun	360	6	4.1	8.0	0	0.00
127	14-Jun	240	4	13.3	8.0	0	0.00
129	14-Jun	120	2	10.0	7.0	0	0.00
130	14-Jun	120	2	25.0	8.0	1	0.50
132	14-Jun	120	2	20.0	8.0	0	0.00
134	14-Jun	240	4	10.0	8.0	0	0.00
135	14-Jun	720	12	8.3	7.0	1	0.08
137	15-Jun	720	12	4.1	8.0	0	0.00
140	15-Jun	720	12	8.3	7.0	1	0.08
142	15-Jun	720	12	10.0	8.0	0	0.00
145	15-Jun	720	12	4.1	8.0	0	0.00
147	15-Jun	270	5	25.0	8.0	0	0.00
152	15-Jun	240	4	50.0	8.8	0	0.00
154	15-Jun	330	6	25.0	8.0	1	0.18
157	15-Jun	300	5	25.0	7.8	1	0.20

(continued)

Appendix Table A.3. (Page 3 of 5)

Entry	Day	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
158	15-Jun	360	6	60.0	8.5	0	0.00
159	15-Jun	240	4	30.0	6.8	0	0.00
160	15-Jun	330	6	8.3	7.0	0	0.00
162	15-Jun	270	5	50.0	7.0	0	0.00
164	15-Jun	210	4	25.0	8.0	0	0.00
165	15-Jun	240	4	25.0	8.0	1	0.25
166	15-Jun	390	7	25.0	7.8	0	0.00
170	16-Jun	360	6	25.0	7.0	0	0.00
175	16-Jun	720	12	8.3	7.0	0	0.00
176	16-Jun	720	12	13.3	8.0	1	0.08
178	16-Jun	720	12	25.0	8.0	1	0.08
180	16-Jun	720	12	20.0	8.0	0	0.00
181	16-Jun	720	12	4.1	8.0	0	0.00
184	16-Jun	720	12	25.0	7.8	0	0.00
190	17-Jun	720	12	4.1	8.0	0	0.00
194	17-Jun	720	12	25.0	8.0	0	0.00
196	17-Jun	360	6	25.0	8.0	0	0.00
202	17-Jun	270	5	25.0	8.0	0	0.00
204	17-Jun	360	6	25.0	8.0	0	0.00
206	17-Jun	420	7	8.3	7.0	0	0.00
208	17-Jun	420	7	25.0	7.8	0	0.00
209	17-Jun	270	5	25.0	7.8	0	0.00
211	17-Jun	300	5	25.0	8.0	0	0.00
212	17-Jun	120	2	25.0	7.8	0	0.00
214	17-Jun	240	4	25.0	8.0	0	0.00
215	18-Jun	300	5	25.0	8.0	0	0.00
216	18-Jun	360	6	25.0	7.0	0	0.00
217	18-Jun	390	7	25.0	8.0	0	0.00
220	18-Jun	330	6	25.0	8.0	0	0.00
221	18-Jun	270	5	25.0	7.8	0	0.00
223	18-Jun	300	5	25.0	8.0	1	0.20
224	18-Jun	330	6	25.0	8.0	1	0.18
225	18-Jun	240	4	8.3	7.0	0	0.00
226	18-Jun	270	5	30.0	6.8	0	0.00
227	18-Jun	300	5	25.0	8.0	1	0.20
232	18-Jun	360	6	8.3	8.0	1	0.17
236	18-Jun	720	12	10.0	8.0	0	0.00
239	18-Jun	120	2	4.1	8.0	0	0.00
244	18-Jun	120	2	25.0	8.0	1	0.50
245	18-Jun	360	6	20.0	8.0	0	0.00
246	18-Jun	180	3	8.3	8.0	0	0.00

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Appendix Table A.3. (Page 4 of 5)

Entry	Day	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
248	18-Jun	240	4	10.0	8.0	1	0.25
253	19-Jun	270	5	4	8.0	1.0	0.22
256	19-Jun	240	4	25	8.0	0.0	0.00
257	19-Jun	300	5	25	7.8	0.0	0.00
258	19-Jun	120	2	10	8.0	0.0	0.00
259	19-Jun	360	6	25	8.0	0.0	0.00
260	19-Jun	360	6	8	7.0	0.0	0.00
262	19-Jun	360	6	25	7.8	0.0	0.00
264	19-Jun	360	6	16	8.0	0.0	0.00
270	19-Jun	360	6	10	7.0	0.0	0.00
271	20-Jun	240	4	25.0	6.8	0	0.00
272	20-Jun	240	4	25.0	8.0	1	0.25
273	20-Jun	300	5	25.0	7.8	0	0.00
274	20-Jun	240	4	10.0	7.0	0	0.00
275	20-Jun	330	6	25.0	7.0	0	0.00
276	20-Jun	240	4	25.0	7.0	0	0.00
279	20-Jun	360	6	4.1	8.0	0	0.00
280	20-Jun	240	4	4.1	8.0	0	0.00
281	21-Jun	330	6	25.0	7.8	1	0.18
282	21-Jun	360	6	25.0	6.8	0	0.00
283	21-Jun	300	5	25.0	6.8	0	0.00
284	21-Jun	240	4	25.0	6.8	0	0.00
285	21-Jun	420	7	30.0	8.0	1	0.14
286	21-Jun	300	5	25.0	7.8	0	0.00
287	21-Jun	360	6	25.0	7.0	0	0.00
288	21-Jun	330	6	25.0	7.5	0	0.00
289	21-Jun	360	6	4.1	8.0	0	0.00
290	21-Jun	210	4	25.0	8.0	0	0.00
291	22-Jun	360	6	25.0	8.0	1	0.17
292	22-Jun	360	6	25.0	8.0	1	0.17
293	22-Jun	480	8	25.0	7.8	0	0.00
294	22-Jun	360	6	25.0	8.0	0	0.00
295	22-Jun	360	6	25.0	8.0	0	0.00
296	23-Jun	390	7	30.0	6.8	0	0.00
297	23-Jun	390	7	25.0	6.8	0	0.00
298	23-Jun	480	8	25.0	7.0	0	0.00
299	23-Jun	390	7	25.0	7.0	0	0.00
300	23-Jun	360	6	25.0	7.5	0	0.00
301	23-Jun	300	5	16.6	8.0	0	0.00
302	26-Jun	420	7	25.0	6.8	0	0.00
303	26-Jun	360	6	25.0	8.0	0	0.00

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Appendix Table A.3. (Page 5 of 5)

Entry	Day	Time Fished (minutes)		Net Length (fathoms)	Mesh Size	Number Chum	CPUE Chum
		Minutes	Hours				
304	26-Jun	360	6	25.0	8.0	0	0.00
305	26-Jun	360	6	25.0	8.0	0	0.00
306	26-Jun	240	4	25.0	8.0	0	0.00
307	26-Jun	360	6	25.0	8.0	0	0.00
308	27-Jun	390	7	25.0	7.8	0	0.00
309	27-Jun	360	6	25.0	8.0	0	0.00
310	27-Jun	420	7	25.0	8.0	0	0.00
311	28-Jun	390	7	25.0	8.0	1	0.15
312	28-Jun	240	4	25.0	8.0	1	0.25
313	28-Jun	240	4	25.0	8.0	0	0.00
314	29-Jun	360	6	25.0	7.8	0	0.00
315	29-Jun	720	12	25.0	8.0	0	0.00
316	29-Jun	420	7	25.0	8.0	0	0.00
317	29-Jun	420	7	50.0	8.0	0	0.00
318	29-Jun	360	6	25.0	8.0	0	0.00
319	30-Jun	420	7	25.0	6.8	0	0.00
320	30-Jun	420	7	25.0	8.0	0	0.00
321	30-Jun	420	7	25.0	8.0	0	0.00
322	2-Jul	360	6	25.0	8.0	0	0.00
323	2-Jul	360	6	25.0	8.0	0	0.00
324	2-Jul	360	6	25.0	8.0	0	0.00

Appendix Table B. Hooper Bay subsistence catch survey form.

## Hooper Bay Native Village Daily Subsistence Catch Form

### Description of Subsistence Catch

Fishing for kings today was described as:	<input type="checkbox"/>				
	Poor	Fair	Average	Good	Very Good
Fishing for chums today was described as:	<input type="checkbox"/>				
	Poor	Fair	Average	Good	Very Good
Overall, fishermen have completed what percent of their subsistence harvest:	<input type="checkbox"/>				
	10%	25%	50%	75%	90%
					100%
General Observations Describing Catch (i.e., kings are increasing; good storm moving fish; poor tide):					

Catch Per Unit Effort: 6,000 (c)

c = Catch

(1) (t)

| = Net Length

$t = \text{Time}$

FAX DAILY To : 949-1830

Attn: Rick Raymond

Phone 949-1039